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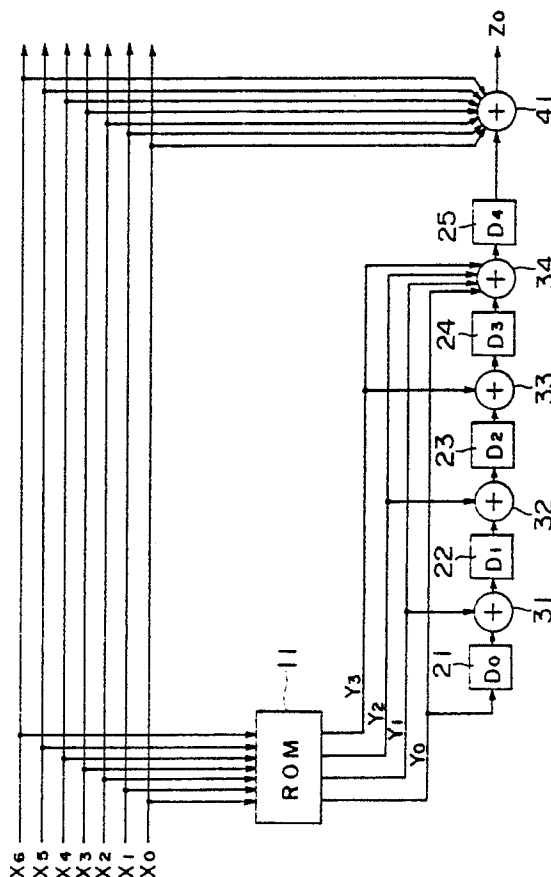
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Convolutional encoder.

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An encoding apparatus comprises a converter and a convolutional encoder. The converter translates a k -bit input to an m -bit output, where m is smaller than k , and the k -bit input belongs to one of 2^m subsets of a set of 2^k elements, the m -bit output representing the subset to which the k -bit inputs belong. Each of the subsets has 2^{k-m} elements and the minimum Hamming distance between any of the 2^{k-m} elements is equal to or greater than the Hamming distance to be achieved by the encoder. The convolutional encoder is responsive to the k -bit input and the m -bit output of the converter to generate an $(n-k)$ -bit output, where n is greater than k .

FIG.1



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